

ABSTRACT

A ventilator circuit for use in administering medication to a patient includes a chamber housing defining an interior space and having an input end and an output end and a one-way inhalation valve positioned upstream of the interior space. The one-
5 way inhalation valve is operative to permit a flow of medication into the interior space of the chamber housing. An inhalation conduit communicates with the output end of the chamber and is adapted to transmit the medication to the patient. An exhaust conduit is connected to the inhalation conduit and a one-way exhaust valve is located in the exhaust conduit. The one-way exhaust valve is adapted to prevent a backflow
10 of gas from the exhaust conduit into the inhalation conduit. A method of administering a medication to a patient includes transmitting oxygen from a gas source through a holding chamber and an inhalation conduit to the patient during an inhalation sequence and introducing the medication into the holding chamber. The method further includes preventing a substantial transmission of an exhaust gas into
15 the holding chamber during an exhalation sequence and transmitting a substantial portion of the exhaust gas into the exhaust conduit during exhalation. The method also includes preventing a substantial transmission of the exhaust gas from the exhaust conduit into the inhalation conduit during subsequent inhalation sequences.

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